United States Department of Agriculture
Natural Resources Conservation Service

OMB No. 0578-0030
NRCS-PDM-20

DAMAGE SURVEY REPORT (DSR)
Emergency Watershed Protection Program – Recovery

Section 1A

Date of Report: March 14, 2006

DSR Number: 019-5-068R Project Number: _____

NRCS Entry Only
Eligible: YES X NO ____
Approved: YES X NO ____
Funding Priority Number (from Section 4) 2de
Limited Resource Area: YES ____ NO X

Section 1B Sponsor Information

Sponsor Name: Gravity Drainage District No. 8

Address: 2841 Goss Road

City/State/Zip: Lake Charles, LA 70611

Telephone Number: 337 855-4388 Fax: 337 855-4388

Section 1C Site Location Information

County: Calcasieu State: Louisiana Congressional District: 7th

Latitude: 30.31854 Longitude: -93.16492 Section: 34, 35 Township: 8S Range: 8W

UTM Coordinates: _____

Drainage Name: GSC-1A + lateral Reach: Upper Reach 4300 ft, Lower Reach 2600ft

Damage Description: Fallen trees and debris accumulation in drain and various culverts along drainage system from Hurricane Rita.

Section 1D Site Evaluation

All answers in this Section must be YES in order to be eligible for EWP assistance.

Site Eligibility	YES	NO	Remarks
Damage was a result of a natural disaster?*	X		
Recovery measures would be for runoff retardation or soil erosion prevention?*	X		
Threat to life and/or property?*	X		
Event caused a sudden impairment in the watershed?*	X		
Imminent threat was created by this event?**	X		
For structural repairs, not repaired twice within ten years?**	X		
Site Defensibility			
Economic, environmental, and social documentation adequate to warrant action? (Go to pages 3, 4, 5 and 6 ***)	X		
Proposed action technically viable? (Go to Page 9 ***)	X		

Have all the appropriate steps been taken to ensure that all segments of the affected population have been informed of the EWP program and its possible effects? YES X NO _____

Comments: _____

* Statutory
** Regulation
*** DSR Pages 3 through 6 and 9 are required to support the decisions recorded on this summary page. If additional space is needed on this or any other page in this form, add appropriate pages.1 of 14

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Section 1E Proposed Action

Describe the preferred alternative from Findings: Section 5 A:
Debris of tree tops, trunks, and roots need to be removed by hauling away these obstacles. The equipment utilizing east side of drainage system would cause less impact to immediate area.

Total installation cost identified in this DSR: Section 3:

Section 1F NRCS State Office Review and Approval

Reviewed By: _____ Date Reviewed: 4/5/06
State EWP Program Manager

Approved By: _____ Date Approved: _____
State Conservationist

PRIVACY ACT AND PUBLIC BURDEN STATEMENT

NOTE: The following statement is made in accordance with the Privacy Act of 1974, (5 U.S.C. 552a) and the Paperwork Reduction Act of 1995, as amended. The authority for requesting the following information is 7 CFR 624 (EWP) and Section 216 of the Flood Control Act of 1950, Public Law 81-516, 33 U.S.C. 701b-1; and Section 403 of the Agricultural Credit Act of 1978, Public Law 95-334, as amended by Section 382, of the Federal Agriculture Improvement and Reform Act of 1996, Public Law 104-127, 16 U.S.C. 2203. EWP, through local sponsors, provides emergency measures for runoff retardation and erosion control to areas where a sudden impairment of a watershed threatens life or property. The Secretary of Agriculture has delegated the administration of EWP to the Chief or NRCS on state, tribal and private lands.

Signing this form indicates the sponsor concurs and agrees to provide the regional cost-share to implement the EWP recovery measure(s) determined eligible by NRCS under the terms and conditions of the program authority. Failure to provide a signature will result in the applicant being unable to apply for or receive a grant the applicable program authorities. Once signed by the sponsor, this information may not be provided to other agencies. IRS, Department of Justice, or other State or Federal Law Enforcement agencies, and in response to a court or administrative tribunal.

The provisions of criminal and civil fraud statutes, including 18 U.S.C. 286, 287, 371, 641, 651, 1001; 15 U.S.C. 714m; and 31 U.S.C. 3729 may also be applicable to the information provided. According to the Paperwork Reduction Act of 1995, an agency may not conduct or sponsor, and a person is not required to respond to a collection of information unless it displays a valid OMB control number. The valid OMB control number for this information collection is 0578-0030. The time required to complete this information collection is estimated to average 117/1.96 minutes/hours per response, including the time for reviewing instructions, searching existing data sources, field reviews, gathering, designing, and maintaining the data needed, and completing and reviewing the collection information.

USDA NONDISCRIMINATION STATEMENT

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Civil Rights Statement of Assurance

The program or activities conducted under this agreement will be in compliance with the nondiscrimination provisions contained in the Titles VI and VII of the Civil Rights Act of 1964, as amended; the Civil Rights Restoration Act of 1987 (Public Law 100-259); and other nondiscrimination statutes: namely, Section 504 or the Rehabilitation Act of 1973, Title IX of the Amendments of 1972, the Age Discrimination Act of 1975, and the Americans with Disabilities Act of 1990. They will also be in accordance with regulations of the Secretary of Agriculture (7 CFR 15, 15a, and 15b), which provide that no person in the United States shall on the grounds of race, color, national origin, gender, religion, age or disability, be excluded from participation in, be denied the benefits of, or otherwise subjected to discrimination under any program or activity receiving Federal financial assistance from the U.S. Department of Agriculture or any agency thereof.

2A Resource Concerns	2B Existing Condition	2C Alternatives and Effects		
		Proposed Action	**No Action**	**Alternative**
		Remove tree tops, trunks, root balls and other debris from one side of drainage system. See sec. 1E for specific information.	**No removal of tree tops, tree trunks, tree root balls and other debris from drainage system.**	**Remove tree tops, tree trunks, tree root balls and other debris from both sides of drainage system. See sec. 1E for specific information.**
		2D Effects of Alternatives		
Soil				
Bank erosion	10 tons/acre	5 tons/acre	10 tons/acre	5 tons/acre
Compaction	n/a	Slight increase due to equipment	n/a	Moderate increase due to equipment
Water				
Flooding	Property and homes upstream subject to flooding from blockages	Upsteam flooding significantly reduced during peak rainfall events once debris is removed	Property and homes subject to continued flooding during rainfall events	Upsteam flooding significantly reduced during peak rainfall events once debris is removed
Excessive sediments and turbidity	Stream flow is minimally impacted in various points along drainage system from sediment and existing root balls will increase turbidity	Removal of root balls will significantly reduce sediments entering into drainage system and reduce souring effects	Sedimentation and turbidity will increase due to scouring	Removal of root balls will significantly reduce sediments entering into drainage system and reduce souring effects
Stream health (SVAP)	4.5 (Poor)	5.2 (Poor)	4.5 (Poor)	5.2 (Poor)
Air				
Particulate matter	n/a	Dry conditions will increase slightly with use of equipment	n/a	Dry conditions will increase moderately with use of equipment
Plant				
Plant health	Significant decrease due to increase of debris	Removal of heavy debris will reduce plant suppression and moderately increase diversity of species.	Plant health will be suppressed until abundant debris decays.	Removal of heavy debris to increase plant health will significantly increase diversity of species.
Riparian Area	Significant damage has occurred through loss of large trees	Removal of debris will allow for moderate increase in re-vegetative processes	Invasive species are present and may become predominate, causing impacts on benefits of buffer	Removal of heavy debris will significantly increase benefits of buffer
Animal				
Aquatic life	Increased debris has caused stagnant water pools and traditional patterns have been interrupted	Removal of heavy debris will significantly increase natural conditions	Stagnant water pools may cause significant accumulation of undesirable aquatic species.	Removal of heavy debris will significantly increase flowage and recreate natural conditions
Small animals	Loss of large cavity trees as cover and source of food	Removal of suppressional debris will significantly increase escape cover by increasing understory growth and development of seed sources	Slow regeneration	Removal of suppressional debris will significantly increase escape cover by increasing understory growth and development of seed sources
Other				
Human	Entanglement of large trees, tree tops, and tree root balls.	Safety factor of children will be significantly increased due to fact of heavy residual and local girls camp	Safety issue	Safety factor of children will be significantly increased due to fact of heavy residual and local girls camp
Aesthetics	Entanglement of unsightly clutter of tops, logs, and root balls	Significantly increase through removal	Cause more unsightly conditions through accelerated growth of vines and brambles	Significantly increase through removal

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Section 2E Special Environmental Concerns

Resource Consideration	Existing Condition	Alternatives and Effects		
		Proposed Action	No Action	Alternative
Clean Water Act Waters of the U.S.	CWA jurisdiction-poor water quality	CWA permit required-improve water quality and restore hydrology (Water Quality Cert)	Poor water quality	CWA permit required-improve water quality and restore hydrology (Water Quality Cert)
Coastal Zone Management Areas	N/A	N/A	N/A	N/A
Coral Reefs	N/A	N/A	N/A	N/A
Cultural Resources	(FOTG) None observed on site	(FOTG) None observed on site	(FOTG) None observed on site	(FOTG) None observed on site
Endangered and Threatened Species	(FOTG) Federal/State list none observed on site	(FOTG) Federal/State list none observed on site	(FOTG) Federal/State list none observed on site	(FOTG) Federal/State list none observed on site
Environmental Justice	N/A	N/A	N/A	N/A
Essential Fish Habitat	(FOTG) No EFH	(FOTG) No EFH	(FOTG) No EFH	(FOTG) No EFH
Fish and Wildlife Coordination	No stream modification needed	LDWF will be consulted	No stream modification needed	LDWF will be consulted
Floodplain Management	100-year floodplain function is impaired	100-year floodplain function is restored	100-year floodplain function is impaired	100-year floodplain function is restored
Invasive Species	Chinese tallow trees and Japanese privet along drainage system	Creation of openings may enhance spread of undesirables but will increase control opportunities	Chinese tallow trees and Japanese privet along drainage system	Creation of openings may enhance spread of undesirables but will increase control opportunities
Migratory Birds	Food and cover quality reduced	Food and cover quality improved	Food and cover quality reduced	Food and cover quality improved
Natural Areas	Exist at lower end of drainage system	Aesthetics will be restored	Impaction will continue	Aesthetics will be restored
Prime and Unique Farmlands	(FOTG) None present	(FOTG) None present	(FOTG) None present	(FOTG) None present
Riparian Areas	Area impacted by flooding due to heavy debris accumulation	Area diversity improved through debris removal	Area impacted by flooding due to heavy debris accumulation	Area diversity improved through debris removal
Scenic Beauty	Impaired by heavy debris	Restored when debris is removed	Impairment will continue to exist	Restored when debris is removed
Wetlands	Debris will cause increased flooding impacting wetland functions and degrading existing vegetation	Removal of debris will improve wetland function and protect vegetation from flooding	Debris will cause increased flooding impacting wetland functions and degrading existing vegetation	Removal of debris will improve wetland function and protect vegetation from flooding
Wild and Scenic Rivers	N/A	N/A	N/A	N/A

Completed By: TLM Date: 3/18/2006

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Section 2F Economic

This section must be completed by each alternative considered (attach additional sheets as necessary).

	Future Damages ($)	Damage Factor (%)	Near Term Damage Reduction
Properties Protected (Private)			
4 homes x $146,604	$586,416	20%	$117,283.20
Properties Protected (Public)			
Business Losses			
Other			
Crossing at Campfire Rd. 24' wide (see notes)	$5,184	25%	$1,296
Total Near Term Damage Reduction $			$118,579.20
Net Benefit (Total Near Term Damage Reduction minus Cost from Section 3)			**$**

Note: The crossing at Campfire Rd. is the only access point to this residential area. According to Census data, there are approximately 110 houses that would be inaccessible if the road and/or structure were breached.

Completed By: Sarah Haymaker Date: March 18, 2006

Section 2G Social Consideration

This section must be completed by each alternative considered (attach additional sheets as necessary).

	YES	NO	Remarks
Has there been a loss of life as a result of the watershed impairment?		X	
Is there the potential for loss of life due to damages from the watershed impairment?	X		Emergency vehicle access to areas affected could be restricted.
Has access to a hospital or medical facility been impaired by watershed impairment?		X	
Has the community as a whole been adversely impacted by the watershed impairment (life and property ceases to operate in a normal capacity)	X		Impairment increases flooding impact throughout the community. Loss of electrical power and communications was experienced.
Is there a lack or has there been a reduction of public safety due to watershed impairment?	X		Future events could impact Campfire Road, restricting access and emergency services.

Completed By: Sarah Haymaker Date: March 18, 2006

Section 2H Group Representation and Disability Information

This section is completed only for the preferred alternative selected.

Group Representation	*Census* Number	*Affected*
American Indian/Alaska Native Female Hispanic		
American Indian/Alaska Native Female Non-Hispanic		
American Indian/Alaska Native Male Hispanic		
American Indian/Alaska Native Male Non-Hispanic		
Asian Female Hispanic		
Asian Female Non-Hispanic		
Asian Male Hispanic		
Asian Male Non-Hispanic	1 <1%	
Black or African American Female Hispanic		
Black or African American Female Non-Hispanic	1 <1%	
Black or African American Male Hispanic		
Black or African American Male Non-Hispanic		
Hawaiian Native/Pacific Islander Female Hispanic		
Hawaiian Native/Pacific Islander Female Non-Hispanic		
Hawaiian Native/Pacific Islander Male Hispanic		
Hawaiian Native/Pacific Islander Male Non-Hispanic		
White Female Hispanic	2 1%	
White Female Non-Hispanic	165 50%	6
White Male Hispanic	5 2%	
White Male Non-Hispanic	158 47%	6
Total Group	**332** **100%**	**12**

NOTE: This demographic data was taken from the 2000 U.S. Census. See the attached tables for details. The data indicates there are 332 persons in 110 households. 332 p / 110 h = 3 persons/household. 4 h x 3p/h = 12 people in the affected homes.

Census tract(s) Tracts 22.04, Blocks 2000, 2001, 2005, 2006, 2007, 2009, 2010, 2016, 2017

Completed By: Sarah Haymaker Date: March 18, 2006

Section 2I. Required consultation or coordination between the lead agency and/or the RFO and another governmental unit including tribes:

Easements, permissions, or permits:
Sponsor will secure all easements, permission to access work areas along drainage system on private lands.
U.S. Army Corps of Engineers 404 permit will be required were applicable.
CWA and water quality certification by be required for grubbing of stumps.

Mitigation Description:
Work will be performed from one side of the channel only as described in engineering report.
Debris will be disposed in approved land fill site.
Removal or chipping debris from drainage system will improve water quality.

Agencies, persons, and references consulted, or to be consulted:
U.S. Army Corps of Engineers
Louisiana Department of Environmental Quality
LDWF for consultation purposes

Section 4 NRCS EWP Funding Priority

Complete the following section to compute the funding priority for the recovery measures in this application (see instructions on page 10).

Priority Ranking Criteria	**Yes**	**No**		**Ranking Number Plus Modifier**
1. Is this an exigency situation?		X		
2. Is this a site where there is serious, but not immediate threat to human life?	X			2 d, e
3. Is this a site where buildings, utilities, or other important infrastructure components are threatened?		X		
4. Is this site a funding priority established by the NRCS Chief?		X		
The following are modifiers for the above criteria			**Modifier**	
a. Will the proposed action or alternatives protect or conserve federally-listed threatened and endangered species or critical habitat?			N	
b. Will the proposed action or alternatives protect or conserve cultural sites listed on the National Register of Historic Places?			N	
c. Will the proposed action or alternatives protect or conserve prime or important farmland?			N	
d. Will the proposed action or alternatives protect or conserve existing wetlands?			Y	
e. Will the proposed action or alternatives maintain or improve current water quality conditions?			Y	
f. Will the proposed action or alternatives protect or conserve unique habitat, including but not limited to, areas inhabited by State-listed species, fish and wildlife management area, or State identified sensitive habitats?			N	

Enter priority computation in Section 1A, NRCS Entry, Funding priority number.

Remarks:

Section 5A Findings

Finding: Indicate the preferred alternative from Section 2 (Enter to Section 1E):
Remove debris from the drainage system accessing from one side (East side). Debris will be removed from Campfire Road to North. Debris will be removed and/or chipped from Campfire Road to south. All debris removal will be disposed in an approved land fill site.

I have considered the effects of the action and the alternatives on the Environmental Economic, Social; the Special Environmental Concerns; and the extraordinary circumstances (40 CFR 1508.27). I find for the reasons stated below, that the preferred alternative:

__X__ Has been sufficiently analyzed in the EWP PEIS (reference all that apply)
Chapter _5.2.2.1.2
Chapter _____
Chapter _____
Chapter _____
Chapter _____

____ May require the preparation of an environmental assessment or environmental impact statement.
The action will be referred to the NRCS State Office on this date:

NRCS representative of the DSR team

Title: _____ Date: _____
(TLM) (3/06)

Section 5B Comments:

Section 5C **Sponsor Concurrence: _____**

Sponsor Representative

Title: _____ Date: _____

Section 6 Attachments:
A. Location Map
B. Site Plan or Sketches
C. Other (explain)

SECTION 6

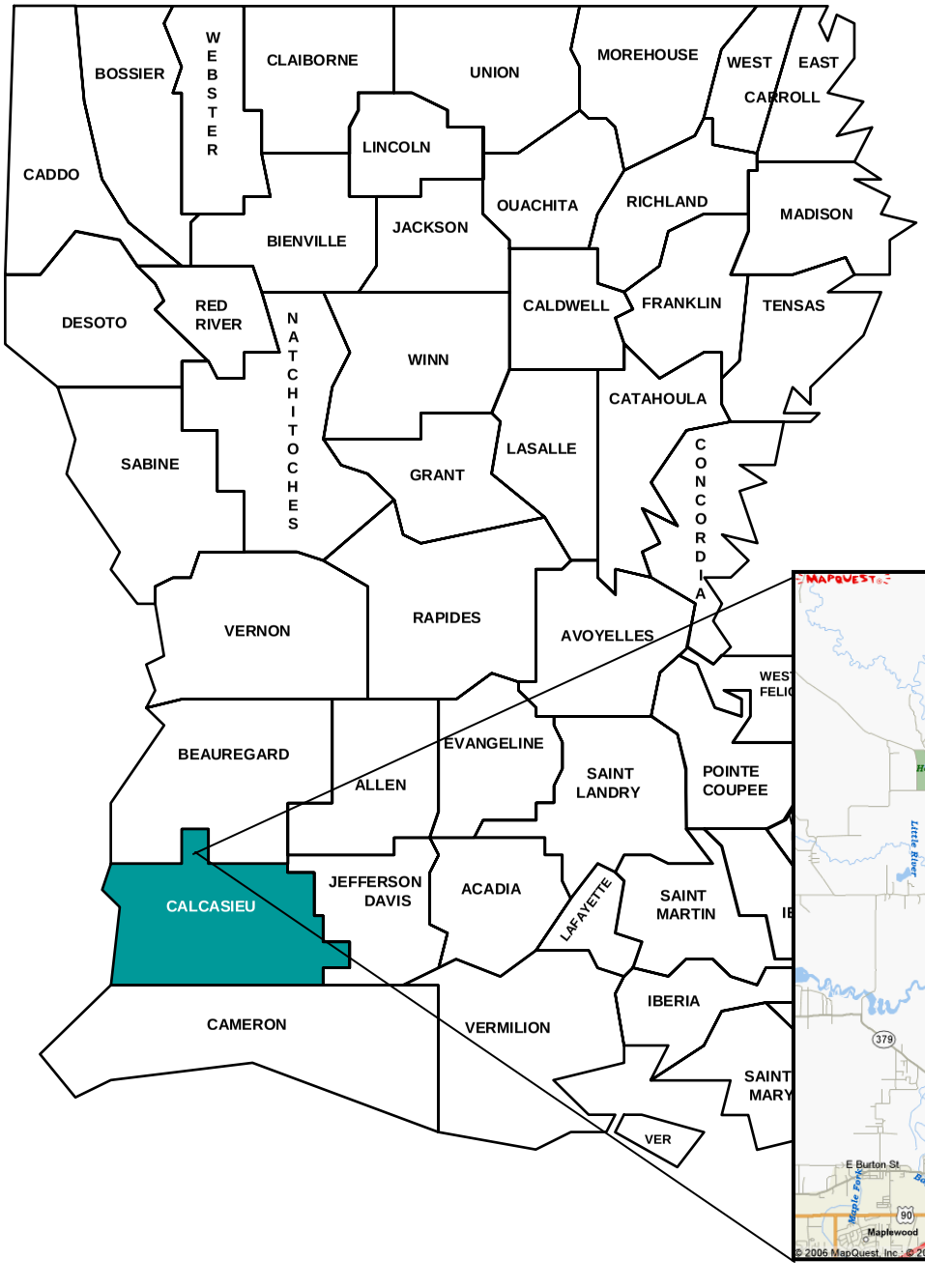
ATTACHMENTS

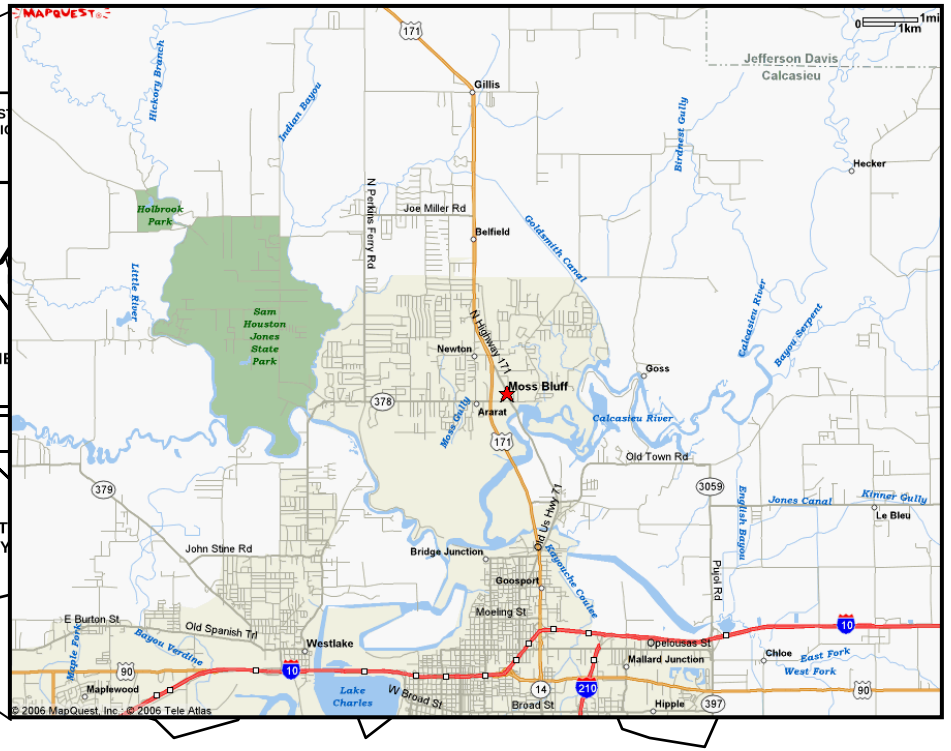
Vicinity Location Map

Calcasieu Parish

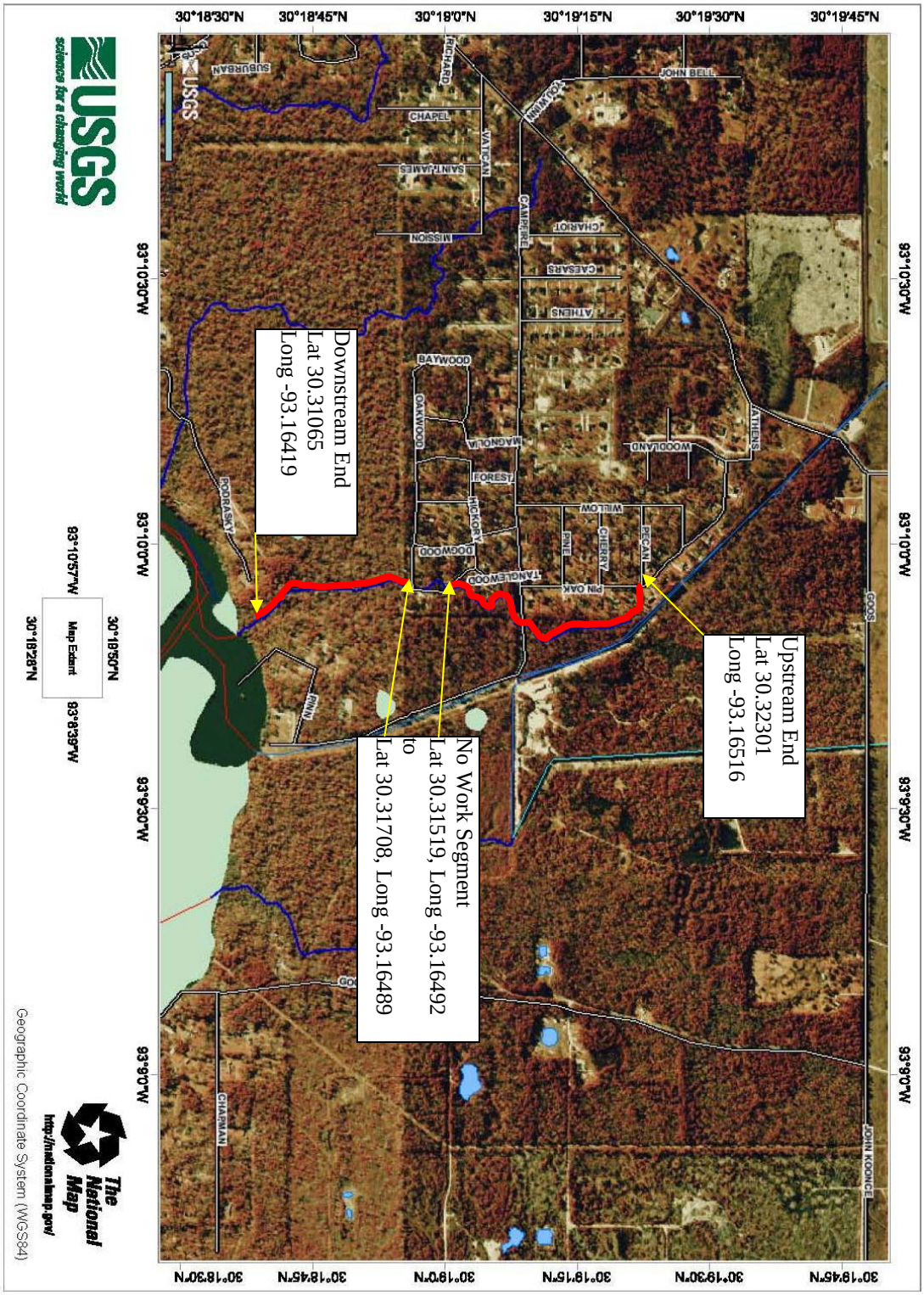
DSR# 019-05-068R

GSC-1A & Lateral

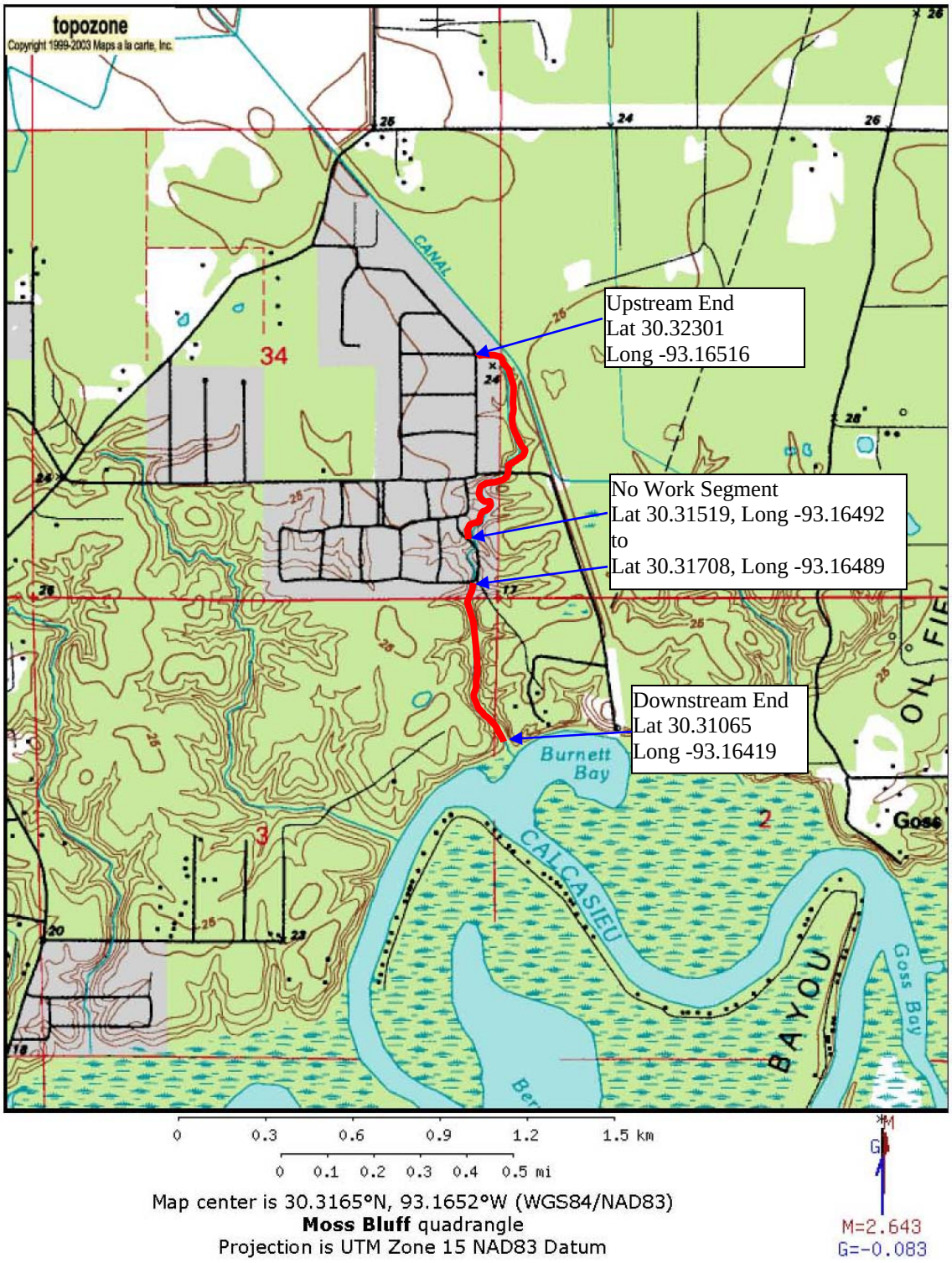




SITE MAP
DSR 019-05-068R
CSG-1A & Lateral
Calcasieu Parish



TOPO MAP
DSR 019-05-068R
CSG-1A & Lateral
Calcasieu Parish



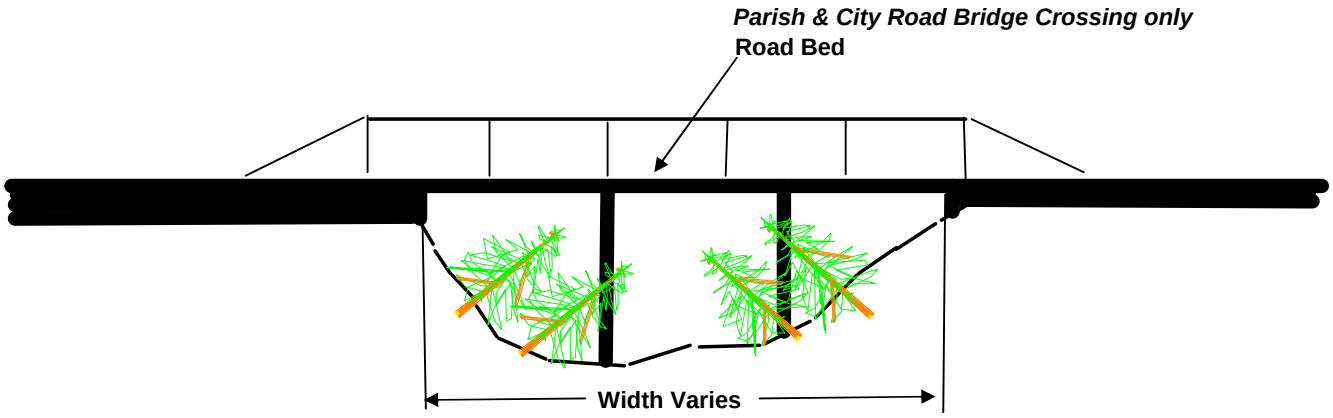
Map center is 30.3165°N, 93.1652°W (WGS84/NAD83)
Moss Bluff quadrangle
Projection is UTM Zone 15 NAD83 Datum

DSR NO: 019-05-068R

CHANNEL: CSG-1A & Lateral

PARISH/SPONSOR: Calcasieu Parish Gravity Drainage District 8

Debris Removal



Note: Contract is to remove Debris from upstream and downstream Bridge which includes underside of bridge
Exception: All Crossing which cross State or Federal highways are not included in contract

Typical Road Bridge Crossing
Not to Scale

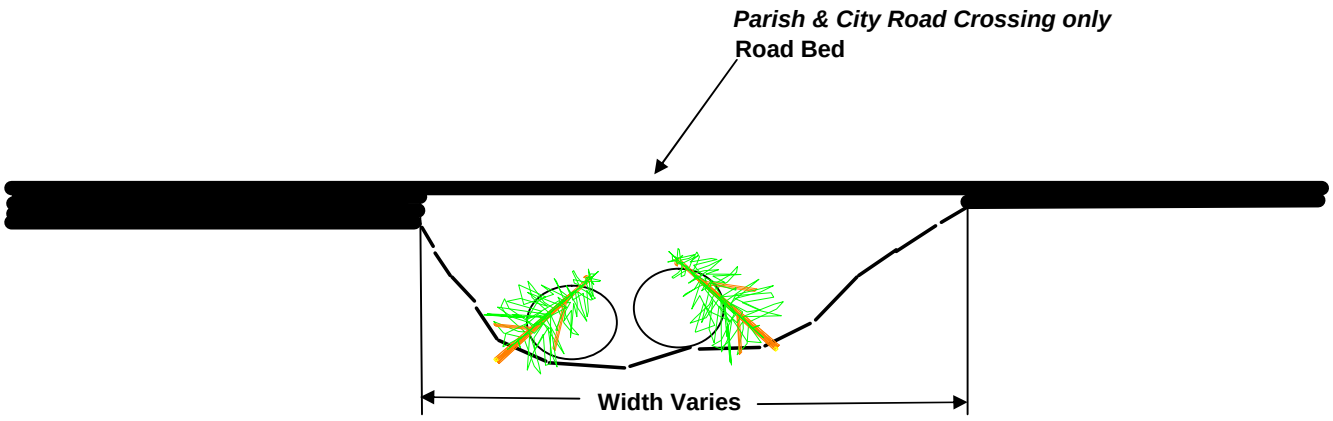
Notice:
48 Hours Before Digging
Call 1-800-272-3020

DSR NO: 019-05-068R

CHANNEL: CSG-1A & Lateral

PARISH/SPONSOR: Calcasieu Parish Gravity Drainage District 8

Debris Removal



Note: Contract is to remove Debris from upstream and downstream Culverts which includes inside of culverts
Exception: All Crossing which cross State or Federal highways are not included in contract

Typical Road Culvert type Crossing
Not to Scale

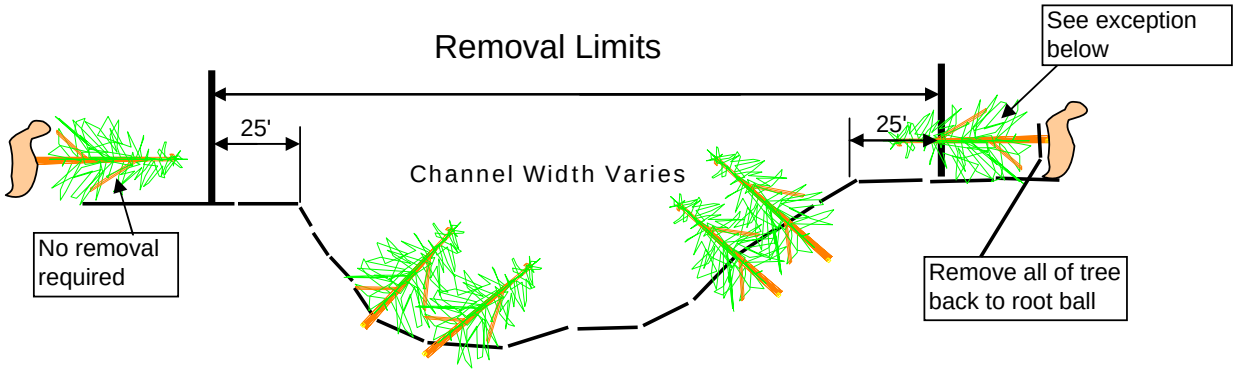
Notice:
48 Hours Before Digging
Call 1-800-272-3020

DSR NO: 019-05-068R

CHANNEL: CSG-1A & Lateral

PARISH/SPONSOR: Calcasieu Parish Gravity Drainage District 8

Debris Removal



Typical Section Not to Scale

Notice:
48 Hours Before Digging
Call 1-800-272-3020

***Note** : Access and work both sides; however work to be performed on one side only in any reach as concurred in by COTR.*

***Exception** it may be possible that trees which were located outside of the the removal limits may have fallen into the removal limits, the entire tree will be removed back to the root ball even if only a portion of the tree is withinthe removal limits*

Channel Obstruction Evaluation

SITE INFORMATION

Parish: CALCASIEU	Site: CS6-1A		
City:			
Sponsor:	Reach:	From - 7,567 LIN. FT.	
Date: 3-18-06		To -	
Evaluation Team: PETE ANDERSON			

PHOTO NUMBERS AND BRIEF DESCRIPTION

Photo #	Description
	See attached sheet

WAYPOINTS

(CIRCLE location and record in Decimal Degrees

Start Work (D/S end)	N 30.31065 93.16419
Midstream	
End Work (U/S end)	N 30.32301 93.16516

NEARBY AND UPSTREAM STRUCTURES

(Fill in Numbers, Values, and Size

CHURCHES		SCHOOLS		PUBLIC FACILITIES	
No. of Churches		No. of Schools		No. of Public Facilities	
HOMESITES		**BUSINESSES**			
No. of Homesites		No. of Businesses			
Average Value of Homes (X $1,000)		Size of Businesses	S M L		

STREAM CROSSINGS

(CIRCLE type and write material, size and length

TYPE	MATERIAL	NUMBER, SIZE, & LENGTH
Bridge		
Culverts	8' dia. Concrete	6005 Rd. 30" dia. Concrete on U.S. unnamed Rd.
Other or None		

UTILITIES

(CHECK the location of the utilities in the area and CIRCLE stream orientation)

	Overhead (Power, Cable, etc.)	U/S	D/S
X	Buried (Gas, Sewer, water, etc.)	U/S	D/S
	Elevated Cross channel (Water, Gas, etc.)	U/S	D/S
Remarks:			

CHANNEL CHARACTERISTICS

(CHECK appropriate box for slope and fill in dimensions informatio

FLOW

SLOPES		DIMENSIONS (wider in spots)		Is Water Flowing?	
X	1.5 : 1 or steeper Majority	Top Width (ft.)	15-20'	YES	NO
X	1.5 : 1 through 3 : 1 Slope	Bottom Width (ft.)	2-6	Is debris accumulating? (i.e. Leaves, Trash)	
	Flatter than 3 : 1	Depth (ft.)	3-6	YES	NO

STATEMENT OF PROBLEM

(CHECK the boxes as needed, and CIRCLE the size of debris that applies)

DEBRIS	IN CHANNEL	ACROSS CHANNEL	SIZE OF DEBRIS			BLOCKAGE % of X-Section Obstructed:	
Pine Trees	X	X	Light	Moderate	(Heavy)	Less than 25%	(26%-50%)
Hardwoods	X	X				(51%-75%)	76%-100%
Shrubs							
Other (explain)							

WORK METHOD AND LOCATION

(CHECK the box that best applies,

	Within Channel Floating Equipment (i.e. Barge or Marsh Buggy)
	Within Channel Non - Floating Equipment (Excavator/Track-hoe, Spider, etc)
X	From Top Banks

ACCESS TO SITE

(Explain access issues and possible difficulties)